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🔍 Title: **JP11268118A2: POLYOLEFIN POROUS FILM, PRODUCTION THEREOF, A SEPARATOR FILM FOR BATTERY**

🌐 Country: **JP Japan**

🔍 Kind: **A2 Document Laid open to Public inspection**

🔍 Inventor: **HASHIMOTO AKINAO;
MORISHIGE KOZO;
YAGI KAZUO;**

🔍 Assignee: **MITSUI CHEM INC**
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🔍 Published / Filed: **1999-10-05 / 1998-04-16**

🔍 Application Number: **JP1998000106766**

🔍 IPC Code: **B29C 55//28; B29C 35//08; B29C 67//20; H01M 2//16; //0C 8J/009/26;
B29K 23//00; B29K 105//04; B29K 105//24; B29L 7//00;**

🔍 Priority Number: **1998-01-26 JP1998000012711**

🔍 Abstract: **PROBLEM TO BE SOLVED:** To provide a film suitably used in a non-aqueous electrolyte and a separator for an electrolyte battery so as to have specific closing temp. and heat-resistant temp. and performing crosslinking so as to obtain a specific gel ratio.

SOLUTION: An inflation film made of a high mol.wt. polyethylene having a thickness of 14 μm is produced. This film 31 is held between a pair of stainless steel mold frames 33 and four sides thereof are fixed between the upper and lower mold frames by using screws 32. In this state, the whole is immersed in a tank filled with heated paraffin oil. The film fixed to the mold frames is taken out of a heat treatment tank to be immersed in a tank filled with 1,3-dichloro-1,1,2,2,3-pentafluoropropane in this state. This film is taken out to be dried by air and the dried film is detached from the mold frames. The obtained film is perforated and irradiated with electron beam of 2 Mrad to perform crosslinking. This perforated film has a gel ratio of 59 and also has a closing temp. of 131°C and heat-resistance temp. of 175°C.

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🔍 Family: **None**

🔍 Forward References: **Go to Result Set: Forward references (1)**

PDF	Patent	Pub.Date	Inventor	Assignee	Title
	US6586912	2003-07-01	Tsukamoto; Hisashi	Quallion LLC	Method and apparatus for amplitude limiting battery temperature spikes

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Other Abstract
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(30) Priority:	26.01.98 JP 10 12711	(71) Applicant: MITSUI CHEM INC
(43) Date of application publication:	05.10.99	(72) Inventor: HASHIMOTO AKINAO MORISHIGE KOZO YAGI KAZUO
(84) Designated contracting states:		(74) Representative:

(54) POLYOLEFIN POROUS FILM, PRODUCTION THEREOF, AND SEPARATOR FILM FOR BATTERY

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a film suitably used in a non-aqueous electrolyte and a separator for an electrolyte battery so as to have specific closing temp. and heat-resistant temp. and performing crosslinking so as to obtain a specific gel ratio.

SOLUTION: An inflation film made of a high mol.wt. polyethylene having a thickness of 14 μm is produced. This film 31 is held between a pair of stainless steel mold frames 33 and four sides thereof are fixed between the upper and lower mold frames by using screws 32. In this state, the whole is immersed in a tank filled with heated paraffin oil. The film fixed to the mold frames is taken out

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